

**SUMMARY OF HYDROLOGIC CONDITIONS
IN THE
UPPER DELAWARE RIVER BASIN
July 2001**

Prepared by the
Office of the Delaware River Master
Milford, Pennsylvania

Adjusted streamflow in the upper Delaware River Basin during July was deficient. The maximum daily discharge of 2,670 cfs occurred on July 1. The minimum daily discharge was 1,490 cfs on July 15.

On the basis of a multi-station average, precipitation during July was 2.36 inches, which was 58 percent of the 60-year average. The maximum daily-average precipitation during the month was 0.39 inches on July 26. Precipitation in the upper Delaware River Basin during the past 12 months was 7.64 inches less than the long-term average. Precipitation during July was 1.73 inches less than the long-term average for the month.

The observed monthly mean streamflow of the Delaware River at Montague, N.J. during July was 1,911 cfs, which was 78 percent of median. The flow at Montague, adjusted for diversions from the basin and change in storage in the major reservoirs was 1,265 cfs, or 56 percent of median (water years 1961-90).

Combined storage August 1, 2001 in Pepacton, Cannonsville, and Neversink Reservoirs was 82 percent of capacity above the point of maximum depletion. The combined storage of 221 billion gallons was 30 billion gallons less than that of one month ago and 45 billion gallons less than that of one year ago. Median storage on the first day of August in 34 years of record is 232 billion gallons.

As part of a statewide network, the USGS operates 13 observation wells in the Pennsylvania part of the Delaware River Basin. Mean water levels during July were below average in 8 of the wells. Water levels in 11 of the wells were trending downward in comparison to June levels. Water levels in 8 of the wells were below July 2000 levels.

HYDROLOGIC CONDITIONS IN THE UPPER DELAWARE RIVER BASIN

Compiled by the Office of the Delaware River Master, Milford, Pa.

(Preliminary data - subject to revision)

PRECIPITATION, IN INCHES

	Dec. 1940 to July 2000		August 2000 to July 2001					
	Average		Actual		Percent of average		Excess (+) or deficit (-)	
	Amount	Cumulative	Amount	Cumulative	By month	Cumulative	By month	Cumulative
Aug.	3.86	43.30	3.19	35.66	83	82	-.67	-7.64
Sept.	3.83	39.44	3.74	32.47	98	82	-.09	-6.97
Oct.	3.39	35.61	2.78	28.73	82	81	-.61	-6.88
Nov.	3.85	32.22	2.45	25.95	64	81	-1.40	-6.27
Dec.	3.34	28.37	*4.30	23.50	129	83	+.96	-4.87
Jan.	3.02	25.03	1.35	19.20	45	77	-1.67	-5.83
Feb.	2.65	22.01	2.26	17.85	85	81	-.39	-4.16
Mar.	3.33	19.36	4.95	15.59	149	81	+1.62	-3.77
Apr.	3.77	16.03	1.38	10.64	37	66	-2.39	-5.39
May	4.21	12.26	3.09	9.26	73	76	-1.12	-3.00
June	3.96	8.05	3.81	6.17	96	77	-.15	-1.88
July	4.09	4.09	2.36	2.36	58	58	-1.73	-1.73

Note: Amount shown in cumulative columns is total from month shown to present.

*Revised since last month.

STREAMFLOW, IN CFS DELAWARE RIVER AT MONTAGUE, N.J.

Month	1940-99			2001 Monthly mean	Percent of median
	Maximum	Median	Minimum		
July (observed)	11,220 (1945)	2,442	864 (1954)	1,911	78
July (adjusted)	11,470 (1945)	2,138	391 (1965)	1,265	59
August (observed)	14,230 (1955)	2,096	715 (1954)		
August (adjusted)	17,410 (1955)	1,380	364 (1964)		